

Claims

1. An underpad system with enhanced impact and shock absorbency properties which comprises:
 - 5 a top layer made of a first compressible material having a first thickness and a first density;
 - a middle layer made of a second compressible material having a second thickness and a second density;
 - 10 a bottom layer made of a third compressible material having a third thickness and a third density;wherein said middle layer is compressed before said top layer and said bottom layer for low impact and shocks, and the said first thickness and the said third thickness remains the same.
- 15 2. An underpad system, as claimed in claim 1, wherein said first and third material is the same.
3. An underpad system, as claimed in claim 2, wherein said second material is more easily compressed than said first material and said third material.
- 20 4. An underpad system, as claimed in claim 1, wherein the said top layer is compressed before the said bottom layer.
5. An underpad system, as claimed in claim 1, wherein the said bottom layer absorbs the excess impact and shock that is not absorbed by the said middle and the said top layer.
- 25 6. An underpad system with enhanced impact and shock absorbency properties which comprises:
 - 30 a top layer made of extended polypropylene having a first thickness and a first density;
 - a middle layer made of polyurethane foam having a second thickness and a second density;
 - a bottom layer made of extended polypropylene having a third thickness and a third density.

7. An underpad system, as claimed in claim 6, wherein the said first thickness is equal to the said third thickness.

5 8. An underpad system, as claimed in claim 6, wherein the said first density is equal to the said third density.

9. An underpad system, as claimed in claim 6, wherein the said top layer is the same as the said bottom layer.

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